

ABSTRACT

The invention is directed to a method and device for simultaneously testing a sample for the presence, absence, and/or amounts of one or more a plurality of selected analytes. The invention includes, in one aspect, a device for detecting or quantitating a plurality of different analytes in a liquid sample. The device includes a substrate which defines a sample-distribution network having (i) a sample inlet, (ii) one or more detection chambers, and (iii) channel means providing a dead-end fluid connection between each of the chambers and the inlet. Each chamber may include an analyte-specific reagent effective to react with a selected analyte that may be present in the sample, and detection means for detecting the signal. Also disclosed are methods utilizing the device.